

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB2004/051118

A. CLASSIFICATION OF SUBJECT MATTER				
IPC 7	G10L21/02	H04R3/00	H04R25/00	H03G5/16

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G10L H04R H03G

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2002/071573 A1 (FINN BRIAN M) 13 June 2002 (2002-06-13) abstract paragraph '0008! paragraph '0071! – paragraph '0074!; figure 6 paragraph '0081! – paragraph '0087!; figures 9,10 ----- US 2002/114474 A1 (FINN BRIAN M) 22 August 2002 (2002-08-22) the whole document ----- US 2002/057808 A1 (GOLDSTEIN JULIUS L) 16 May 2002 (2002-05-16) abstract ----- -/-	1-6, 11-18, 23,24 1,14,23, 24 7
A		
A		

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

° Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the International filing date
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- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

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- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
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Date of the actual completion of the international search

19 October 2004

Date of mailing of the international search report

27/10/2004

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 2002/015503 A1 (HOU ZEZHANG) 7 February 2002 (2002-02-07) cited in the application abstract -----	1,14,23, 24

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2004/051118

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 2002071573	A1	13-06-2002	US	6496581 B1		17-12-2002
			US	6295364 B1		25-09-2001
			WO	02069611 A1		06-09-2002
			CA	2242510 A1		11-03-1999
			EP	0903726 A2		24-03-1999
			AU	752528 B2		19-09-2002
			AU	2253499 A		14-10-1999
			EP	0949795 A2		13-10-1999
US 2002114474	A1	22-08-2002	WO	02069488 A1		06-09-2002
US 2002057808	A1	16-05-2002	AT	236501 T		15-04-2003
			AU	6397199 A		10-04-2000
			DE	69906560 D1		08-05-2003
			DE	69906560 T2		05-02-2004
			EP	1121834 A2		08-08-2001
			WO	0018184 A2		30-03-2000
US 2002015503	A1	07-02-2002	AU	8320501 A		18-02-2002
			CN	1470147 T		21-01-2004
			WO	0213572 A2		14-02-2002